

OK

AND OIL & GAS ADMINISTRATION

100 - 1000



APPROVED

RANKING SCORE (TOTAL POINTS): 10

Date Remediation Started: 9/2/98 Date Completed: 9/2/98

Remediation Method: Excavation X

Approx. cubic yards 225 CY

(Check all appropriate sections)

Landfarmed X

Insitu Bioremediation _____

Other _____

Remediation Location: Onsite X Offsite _____
(i.e. landfarmed onsite, name and location of offsite facility)

General Description of Remedial Action: REMOVED CONTAMINATED SOIL USING EXCAVATOR, SPREAD ON LOCATION IN SOIL FARM

Groundwater Encountered: No X Yes _____ Depth _____

Final Pit: Sample location Pit Bottom Center

4 BANKS N, S, E, W

Closure Sampling:

(if multiple samples, attach sample results

and diagram of sample locations and depths)

Sample depth 15'

Sample date 9/2/98

Sample time 10:45 AM

GAS NO PPM

DIE NO PPM

METHOD: 8015M

PID = 6.8 PPM

Sample Results

Soil: Benzene (ppm) N/A

Water: Benzene (ppb) N/A

Total BTEX (ppm) N/A

Toluene (ppb) N/A

Field Headspace (ppm) 4.7

Ethylbenzene (ppb) N/A

TPH 8015M (ppm) GAS NO PPM

DIE NO PPM

Total Xylenes (ppb) N/A

Groundwater Sample: Yes _____ No X (If yes, attach sample results)

I HEREBY CERTIFY THAT THE INFORMATION ABOVE IS TRUE AND COMPLETE TO THE BEST OF MY KNOWLEDGE AND BELIEF

DATE 11/24/98 PRINTED NAME SHAWN ADAMS

SIGNATURE [Signature] AND TITLE ENV. CONSULTANT

AFTER REVIEW OF THE PIT CLOSURE INFORMATION, PIT CLOSURE IS APPROVED IN ACCORDANCE WITH THE JICARILLA APACHE TRIBE PIT CLOSURE ORDINANCE.

APPROVED: YES X NO _____ (REASON) _____

SIGNED: [Signature] DATE: 11-25-98

OFF: (505) 325-5667



LAB: (505) 325-1556

ANALYTICAL REPORT

Date: 16-Sep-98

Client:	Contract Environmental Services, Inc.	Client Sample Info:	Martin Whittaker #22 #2
Work Order:	9809008	Client Sample ID:	MW22#2-300
Lab ID:	9809008-05A	Matrix:	SOIL
Project:	Martin Whittaker	Collection Date:	9/2/98 10:45:00 AM
		COC Record:	4388

Parameter	Result	PQL	Qual	Units	DF	Date Analyzed
DIESEL RANGE ORGANICS		SW8015				
T/R Hydrocarbons: C10-C28	ND	25		mg/Kg	1	9/14/98
GASOLINE RANGE ORGANICS		SW8015				
T/R Hydrocarbons: C6-C10	ND	0.18		mg/Kg	1	9/13/98

Qualifiers:

PQL - Practical Quantitation Limit

ND - Not Detected at Practical Quantitation Limit

J - Analyte detected below Practical Quantitation Limit

B - Analyte detected in the associated Method Blank

S - Spike Recovery outside accepted recovery limits

R - RPD outside accepted recovery limits

E - Value above quantitation range

Surr: - Surrogate

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1 of 1

OFF: (505) 325-5667



LAB: (505) 325-1556

ANALYTICAL REPORT

Date: 16-Sep-98

Client:	Contract Environmental Services, Inc.	Client Sample Info:	Martin Whittaker #22 #2
Work Order:	9809008	Client Sample ID:	MW22#2-301
Lab ID:	9809008-06A	Matrix:	SOIL
Project:	Martin Whittaker	Collection Date:	9/2/98 10:50:00 AM
		COC Record:	4388

Parameter	Result	PQL	Qual	Units	DF	Date Analyzed
DIESEL RANGE ORGANICS		SW8015				Analyst: HR
T/R Hydrocarbons: C10-C28	ND	25		mg/Kg	1	9/14/98
GASOLINE RANGE ORGANICS		SW8015				Analyst: HR
T/R Hydrocarbons: C6-C10	ND	0.18		mg/Kg	1	9/13/98

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CONTRACT ENVIRONMENTAL

Daily Site Sheet

Client Name: Elm Ridge Resources

Site Name: MARTIN WH. HAKER No 22

Date: 9-2-98

Time Started: 8:00

Time Finished: _____

Pit starting size: 10X10X4 P.T.#2 Pit size when finished: 20X20X15 P.T.#2
P.T.#1 15X15X5 P.T.#1 20X20X20

Land farm size: _____

Distance to wash > or < 100': _____

Distance to lake or pond: _____

Distance to private or domestic water source > or < 1000': _____

P.I.D. Readings

North wall: P.T.#2 3.8 PPM
P.T.#1 0.0 PPM

South wall: 6.8 PPM
6.9 PPM

East wall: 1.8 PPM
3.6 PPM

West wall: 3.4 PPM
0.0 PPM

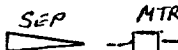
Land farm: _____

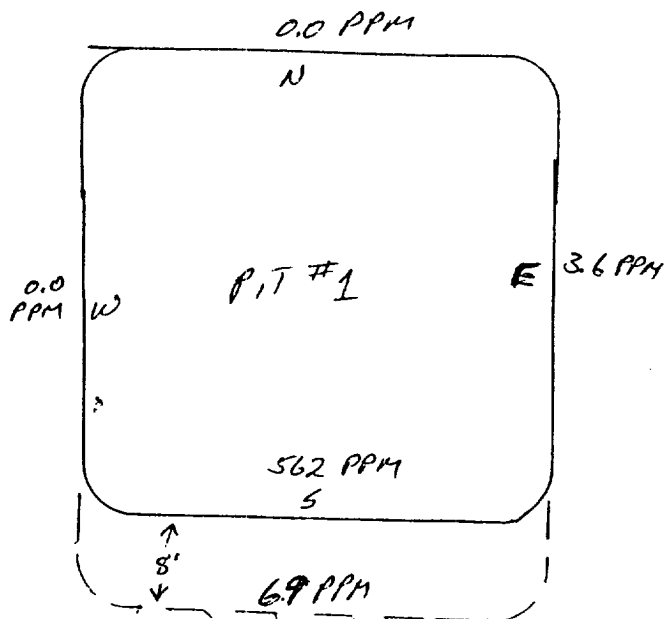
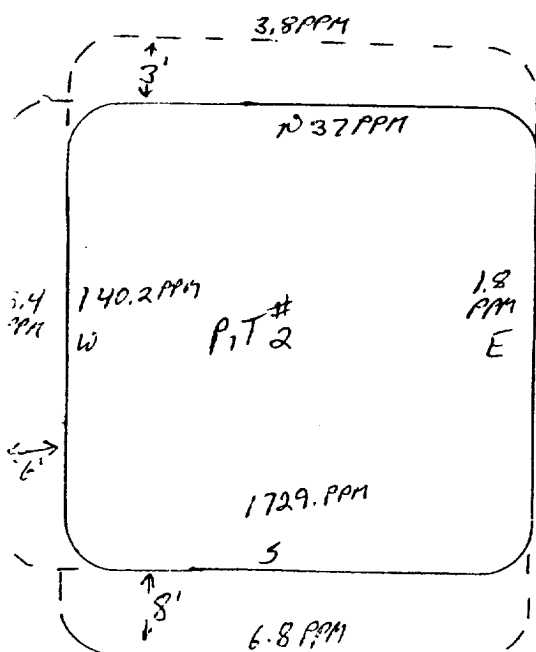
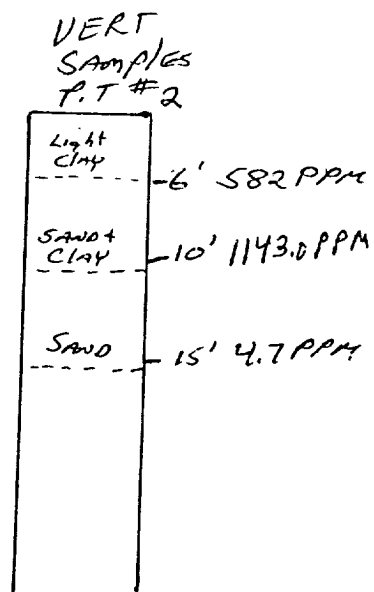
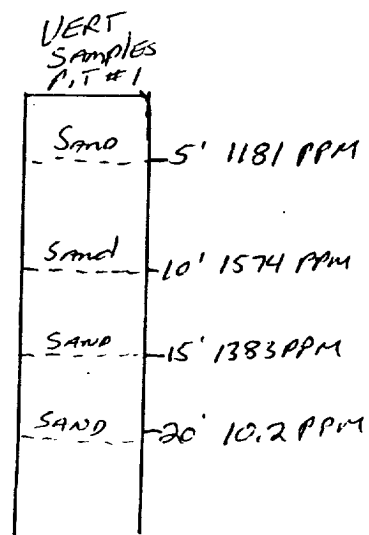
Equipment used: P.S.D. P.I.D. EXCAVATOR LINE LOCATOR Jim Kirby Linin Wilson

Remarks: TOOK TWO SAMPLES ON MW 22 #2 TO LAB 402 JAR MW 22 #2-300
P.T. FLOOR 4.7 PPM 402 JAR MW 22 #2-301 4 WALL COMP 6.8 PPM
P.T. #1 IS EAST OF METER P.T. #2 IS BETWEEN TANK + SEP. TWO SAMPLES TO LAB
MW 22 #1-302 P.T. FLOOR 10.2 PPM MW 22 #1-303 4 WALL COMP 3.4 PPM

Site Diagram

Sample No.	Description	PID (PPM)
1) MW 22 #2-300	P.T. FLOOR	4.7 PPM
2) MW 22 #2-301	4 WALL COMP	6.8 PPM
3) MW 22 #1-302	P.T. FLOOR	10.2 PPM
4) MW 22 #1-303	4 WALL COMP	3.4 PPM





ON SITE
TECHNOLOGIES, LTD.

Page 1 of 1

TECHNOLOGIES, LTD.
657 W. Maple • P. O. Box 2606 • Farmington NM 87499
LAB: (505) 325-5667 • FAX: (505) 325-6256

[illegible]

Distribution:	White - On Site	Yellow - LAB	Pink - Sampler	Goldenrod - Client
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LEADS:

_____ a

_____ water

_____ G6

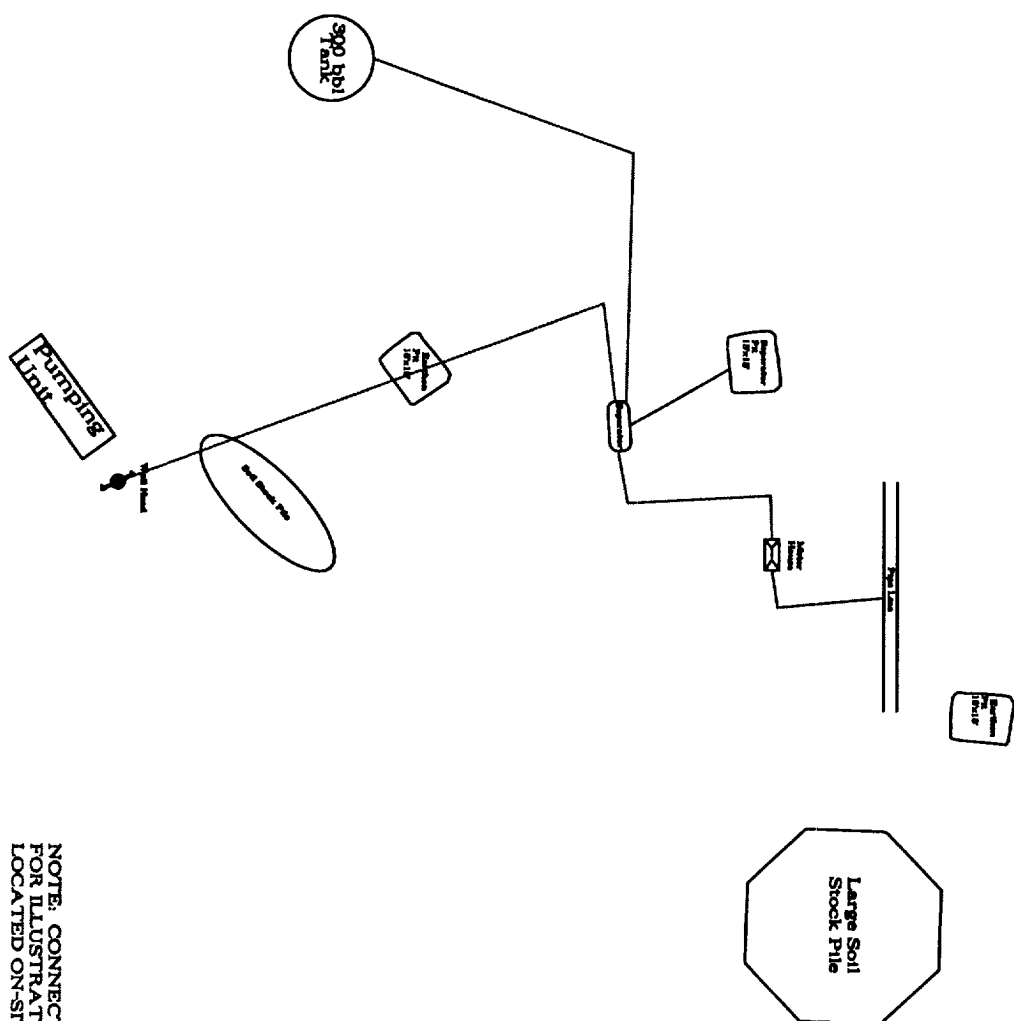
_____ O/U Water

_____ Cond/OU/ Water

Field Data Recorded: _____ Date: _____

Reviewed : _____ Date: _____

Drawn: _____ Date: _____



↑
NORTH
↓

NOTE: CONNECTING PIPING INSTRUCTIONS ARE APPROXIMATE FOR ILLUSTRATIVE PURPOSES ONLY. ACTUAL LINES MUST BE LOCATED ON-SITE BY A QUALIFIED TECHNICIAN.

Elm Ridge Resources

Martin Whittaker #22

NE/SW Sec. 7, T23N, R4W

Rio Arriba County, New Mexico

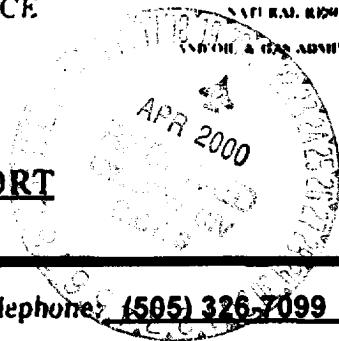
Contract Environmental Services, Inc.

505-325-1198

Farmington, New Mexico

JICARILLA APACHE TRIBE
ENVIRONMENTAL PROTECTION OFFICE
P.O. BOX 507
DULCE, NEW MEXICO 87528

SUBMIT COPY TO
NATURAL RESOURCE DEPT
CIVIL & GAS ADMINISTRATION



ON-SITE SOIL REMEDIATION REPORT

Operator: Elm Ridge Resources Telephone: (505) 326-7099

Address: 312 W La Plata, Farmington NM 87401

Facility or Well Name: Martin Whittaker #2 Pit #2

Location: Unit or Qtr/Qtr Sec NE/SW Sec 07 T 23N R 4W County Rio Arriba

Land Type: Jicarilla Range

Date Remediation Started: 9-2-98 Date Completed: 8-13-99

Remediation Method: Landfarmed X Approx. cubic yards 267

Composted

Other

Depth To Groundwater: (pts.) 0

Distance to an Ephemeral Stream (pts.) 0

Distance to Nearest Lake, Playa, or Watering Pond (pts.) 10

Wellhead Protection Area: (pts.) 0

Distance To Surface Water: (pts.) 0

Final Closure Sampling:

Sampling Date: 8-13-99 Time: 0920

Sample Results:

Field Headspace (ppm) 0.9

TPH (ppm) GRO NO Method 8015

Other

RANKING SCORE (TOTAL POINTS): 10

I HEREBY CERTIFY THAT THE INFORMATION ABOVE IS TRUE AND COMPLETE TO THE BEST OF MY KNOWLEDGE AND BELIEF

DATE 9-23-99 PRINTED NAME Bill Schaaphok

SIGNATURE Bill Schaaphok AND TITLE Environmental Specialist

AFTER REVIEW OF THE SOIL REMEDIATION INFORMATION, ON-SITE REMEDIATION IS APPROVED IN ACCORDANCE TO THE JICARILLA APACHE TRIBE PIT CLOSURE ORDINANCE.

APPROVED: YES NO (REASON)

SIGNED: DATE:

OFF: (505) 325-5667



LAB: (505) 325-1556

ANALYTICAL REPORT

Date: 20-Aug-99

Client:	Elm Ridge Resources, Inc.	Client Sample Info:	Elm Ridge Resources
Work Order:	9908038	Client Sample ID:	MW #22 Landfarm 2-1
Lab ID:	9908038-01A	Matrix:	SOIL
Project:	Elm Ridge Landfarms	Collection Date:	08/13/1999 9:20:00 AM
		COC Record:	10247

Parameter	Result	PQL	Qual	Units	DF	Date Analyzed
DIESEL RANGE ORGANICS		SW8015B				Analyst: DC
T/R Hydrocarbons: C10-C28	ND	25		mg/Kg	1	08/19/1999
GASOLINE RANGE ORGANICS		SW8015B				Analyst: DM
T/R Hydrocarbons: C6-C10	ND	0.18		mg/Kg	1	08/18/1999

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Environmental Specialist :